Appendix A

nop	IGNORE_OPCODE
aconst_null	OP_PUSHB
iconst_ml	OP_PUSHB
iconst_0	OP_PUSHB
iconst_1	OP_PUSHB
iconst_2	OP_PUSHB
iconst_3	OP_PUSHB
iconst_4	OP_PUSHB
iconst_5	OP_PUSHB
lconst_0	OP_PUSHL
lconst_1	OP_PUSHL
fconst_0	OP_PUSH
fconst_1	OP_PUSH
fconst_2	OP_PUSH
dconst_0	OP_PUSHL
dconst_1	OP_PUSHL
bipush	OP_PUSHB
sipush	OP_PUSH
ldc	OP_PUSH
ldc_w	OP_PUSH
ldc2_w	OP_PUSHL
iload	OP_LOAD
lload	OP_LOADL
fload	OP_LOAD
d1oad	OP_LOADL
aload	OP_LOAD
iload_0	OP_LOAD
iload_1	OP_LOAD
iload_2	OP_LOAD
iload_3	OP_LOAD
lload_0	OP_LOADL
11oad_1	OP_LOADL
11oad_2	OP_LOADL

lload_3	OP_LOADL		
fload_0	OP_LOADL		
fload_1	OP_LOAD		
fload_2	OP_LOAD		
fload_3	OP_LOAD		
dload_0	OP_LOADL		
d1oad_1	OP_LOADL		
dload_2	OP_LOADL		
dload_3	OP_LOADL		
aload_0	OP_LOAD		
aload_I	OP_LOAD		
aload_2	OP_LOAD		
aload_3	OP_LOAD		
iaload	OP_ALOAD		
laload	OP_ALOAD		
faload	OP_ALOAD		
daload	OP_ALOAD		
aaload	OP_ALOAD		
baload	OP_ALOAD		
caload	OP_ALOAD		
saload	OP_ALOAD		
istore	OP_STOR		
Istore	OP_STORL		
fstore	OP_STOR		
dstore	OP_STORL		
astore	OP_STOR		
istore_0	OP_STOR		
istore_1	OP_STOR		
istore_2	OP_STOR		
istore_3	OP_STOR		
1store_0	OP_STORL		
1store_1	OP_STORL		
Istore_2	OP_STORL		
1store_3	OP_STORL		
fstore_0	OP_STOR		
fstore_1	OP_STOR		

fstore_2	OP STOR	
fstore_3	OP STOR	
dstore_0		
	OP_STORL	
dstore_1	OP_STORL	
dstore_2	OP_STORL	
dstore_3	OP_STORL	
astore_0	OP_STOR	
astore_1	OP_STOR	
astore_2	OP_STOR	
astore_3	OP_STOR	
iastore	OP_ASTORE	
lastore	OP_ASTOREL	
fastore	OP_ASTORE	
dastore	OP_ASTOREL	
aastore	OP_ASTORE	
bastore	OP_ASTORE	
castore	OP_ASTORE	
sastore	OP_ASTORE	
pop	OP_POP	
pop2	OP_POP	
dup	OP_DUP	
dup_x1	OP_DUP	
dup_x2	OP_DUP	
dup2	OP_DUPL	
dup2_x1	OP_DUPL	
dup2_x2	OP DUPL	
swap	OP_SWAP	
iadd	OP_IADD	
ladd	OP_LADD	
fadd	OP FADD	
dadd	OP_DADD	
isub	OP_ISUB	
Isub	OP_LSUB	
fsub	OP_FSUB	
dsub	OP_DSUB	
imul	OP_IMUL	
L		

lmul	OP_LMUL		
fmul	OP_FMUL		
dmul	OP_DMUL		
idiv	OP_IDIV		
ldiv	OP_LDIV		
fdiv	OP_FDIV		
ddiv	OP_DDIV		
irem	OP_IREM		
Irem	OP_LREM		
frem	OP_FREM		
drem	OP_DREM		
ineg	OP_INEG		
Ineg	OP_LNEG		
fneg	OP_FNEG		
dneg	OP_DNEG		
ishl	OP_ISHL		
IshI	OP_LSHL		
ishr	OP_ISHR		
Ishr	OP_LSHR		
iushr	OP_IUSHR		
lushr	OP_LUSHR		
iand	OP_IAND		
land	OP_LAND		
ior	OP_IOR		
lor	OP_LOR		
ixor	OP_IXOR		
lxor	OP_LXOR		
iinc	OP_IINC		
i2l	OP_I2L		
i2f	IGNORE_OPCODE		
i2d	OP_I2D		
12i	OP_L2I		
12f	OP_L2F		
12d	OP_L2D		
f2i	IGNORE_OPCODE		
f2I	OP_F2L		

d2i OP_D2I d2l OP_D2L d2f OP_D2F i2b IGNORE_OPCODE i2c IGNORE_OPCODE			
d2f OP_D2F i2b IGNORE_OPCODE			
i2b IGNORE_OPCODE			
iOn IONODE ODGODE			
i2c IGNORE_OPCODE			
i2s IGNORE_OPCODE			
lcmp OP_LSUB, OP_JMPEQ	_		
fcmpl OP_FSUB, OP_JMPLE			
fcmpg OP_FSUB, OP_JMPGE			
dcmpl OP_DCMP, OP_JMPLE			
dcmpg OP_DCMP, OP_JMPGE			
ifeq OP_JMPEQ			
ifne OP_JMPNE			
iflt OP_JMPLT			
ifge OP_JMPGE			
ifgt OP_JMPGT			
ifle OP_JMPLE	OP_JMPLE		
if icmpeq OP_ISUB, OP_JMPEQ	OP_ISUB, OP_JMPEQ		
if icmpne OP_ISUB, OP_JMPNE	OP_ISUB, OP_JMPNE		
if icmplt OP_ISUB, OP_JMPLT			
if icmpge OP_ISUB, OP_JMPGE			
if icmpgt OP_ISUB, OP_JMPGT			
if icmple OP_ISUB, OP_JMPLE			
if acmpeq OP_ISUB, OP_JMPEQ			
if acmpne OP_ISUB, OP_JMPNE			
goto OP_JMP			
jsr OP_JSR	OP_JSR		
ret OP_RET	OP_RET		
tableswitch OP_SWITCH	OP_SWITCH		
lookupswitch OP_SWITCH	OP_SWITCH		
ireturn OP_RETURN	OP_RETURN		
Ireturn OP_LRETURN	OP_LRETURN		
freturn OP_RETURN	OP_RETURN		
dreturn OP_LRETURN	OP_LRETURN		
areturn OP_RETURN			

return	OP_RETURNV	
getstatic	OP_RESOLVE	
putstatic	OP_RESOLVEP	
getfield	OP_RESOLVE	
putfield	OP_RESOLVEP	
invokevirtual	OP_RESOLVE	
invokespecial	OP_RESOLVE	
invokestatic	OP_RESOLVE	
invokeinterface	OP_RESOLVE	
xxxunusedxxx	IGNORE_OPCODE	
new	OP_NEW	
newarray	OP_NEW	
anewarray	OP_NEW	
arraylength	OP_ARRAYLENGTH	
athrow	OP_THROW	
checkcast	IGNORE_OPCODE	
instanceof	OP_INSTANCEOF	
monitorenter	OP_MUTEXINC	
monitorexit	OP_MUTEXDEC	
wide	OP_WIDE	
multianewarray	OP_NEW	
ifnull	OP_JMPEQ	
ifnonnull	OP_JMPNE	
goto_w	OP_JMP	
jsr_w	OP_JSR	

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